



February 10, 2015

CIP Update Summary

ORIGINAL CIP (Approved May 2008)

	Number	of Projects				
Total	Active		Complete	Total \$ Budgeted	Total Spent*	
	In Planning/ Design	In Construction		(2007 dollars)	as of 12/31/2010	
131	48	16	21	\$339,280,567	\$ 50,011,285	

^{*} Cost from R. Widger spreadsheet "SBSA Financial Reporting Package Dec2010"

2012 CIP UPDATE (Approved July 2012)

Number of Projects							
Total 2012 Update	Total 2011 Update	Original CIP Projects	Active		Complete	Total \$ Budgeted	Total Spent**
	-	_	In Planning/ Design	In Construction			as of 5/31/2012
144	139	131	30	37	39	\$420,458,865	\$ 87,608,443

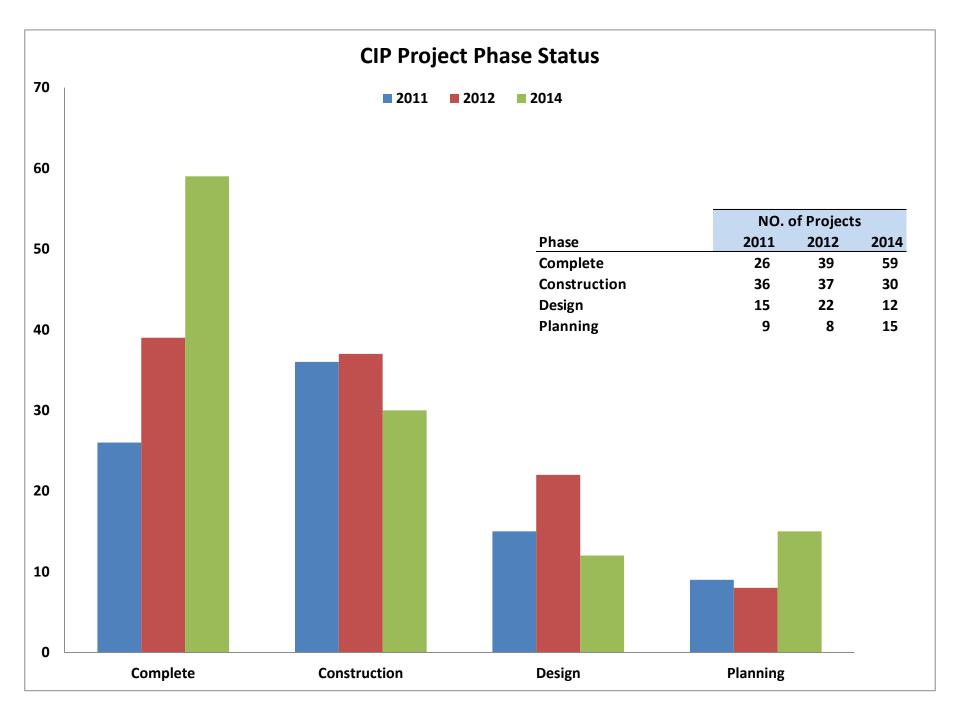
^{**} Amount from R. Widger spreadsheet "SBSA Financial Reporting Package May 2012"

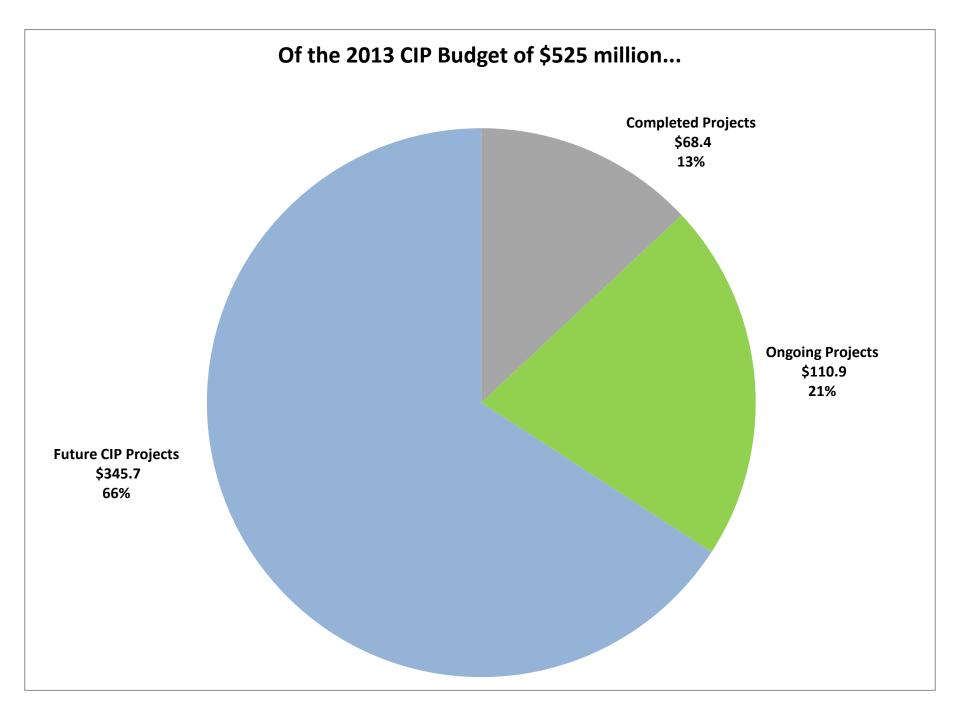
2013 CIP UPDATE

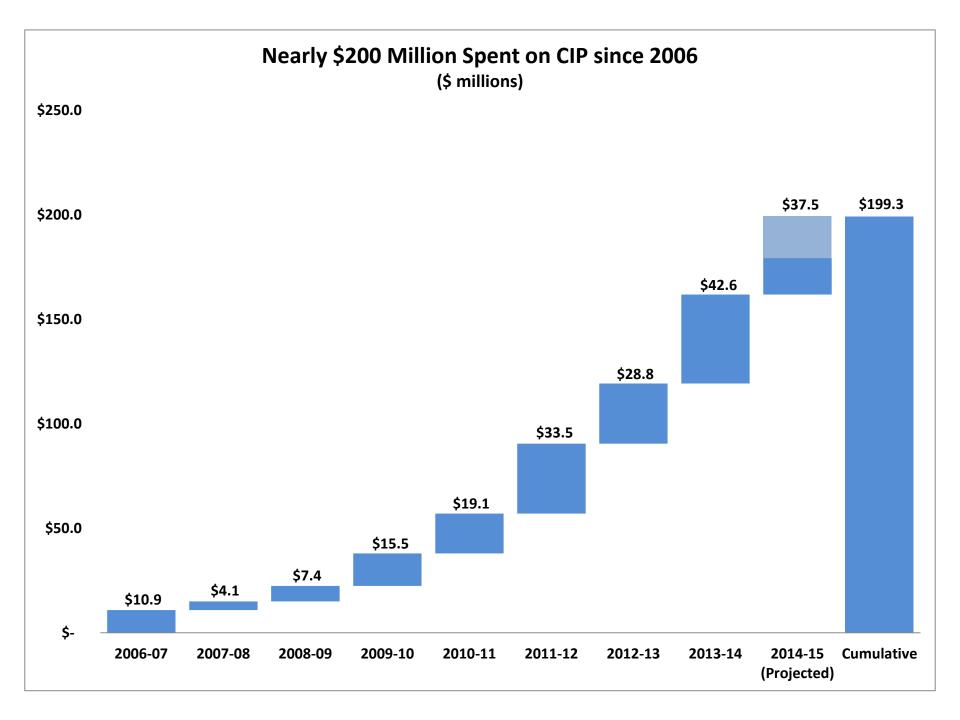
(Numbers as of December 31, 2014)

Number of Projects							
Total 2013 Update	Total 2012 Update	Original CIP Projects	Active		Complete	Total \$ Budgeted	Total Spent***
			In Planning/ Design	In Construction			as of 12/31/2014
130	144	131	27	30	59	\$524,773,470	\$ 179,324,660

^{***} Amount from M. Anderson Summary



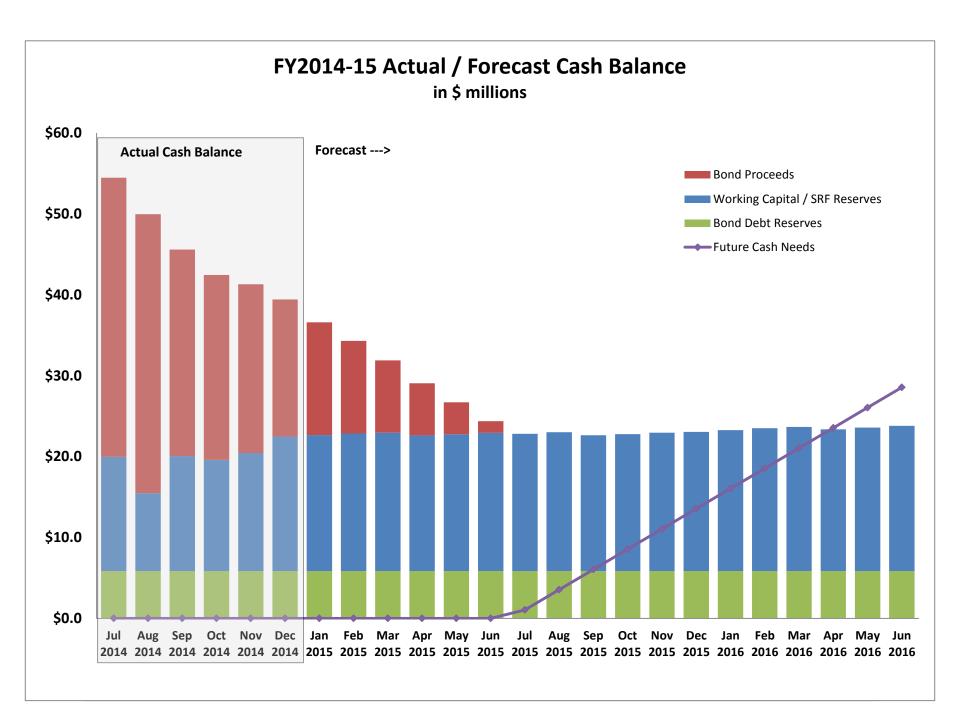




CIP Funding Summary, January 2015 Amount Status **Description Bonds Issued:** 2008 Wastewater Revenue Bonds 10.0 100% spent 2009 Wastewater Revenue Bonds 55.9 100% spent 60.0 80% spent 2014 Wastewater Revenue Bonds 125.9 Subtotal, Bonds Issued: State Revolving Fund (SRF) Loan Program: * Plant Control Building 100% spent 11.4 **WWTP Improvements** 36.3 45% spent Subtotal, SRF Loans: **State Grants:** California Energy Commission - Cogen Anticipate receipt in 2015 California Energy Commission - Food Waste to Energy 1.5 Anticipate receipt in 2016 Subtotal, Grant Funding 4.0 177.5 **TOTAL Funding Sources to date:**

^{* -} Excludes a \$30 million Line of Credit facility used as an interim cash flowtool.





SIGNIFICANT ACHIEVEMENTS



Solids Dewatering 1980 Centrifuge



Solids Dewatering 2015 Rotary Presses



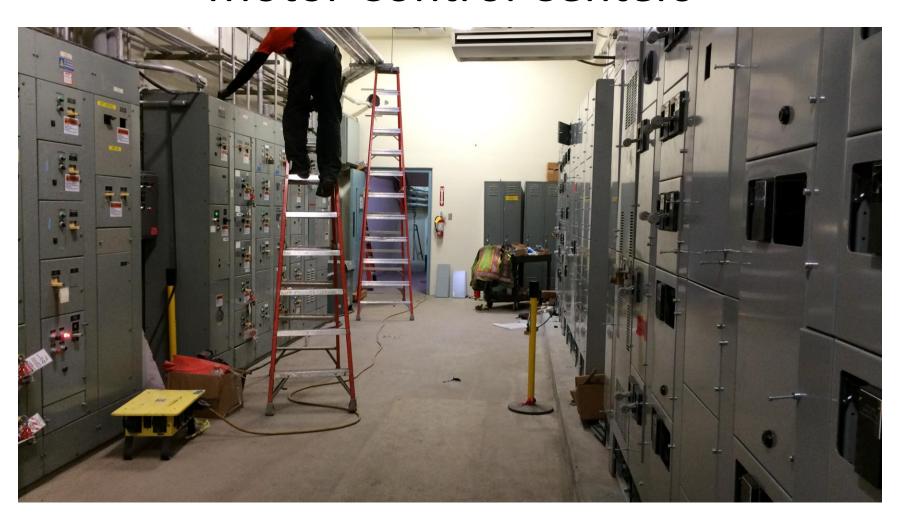


Solids Dewatering

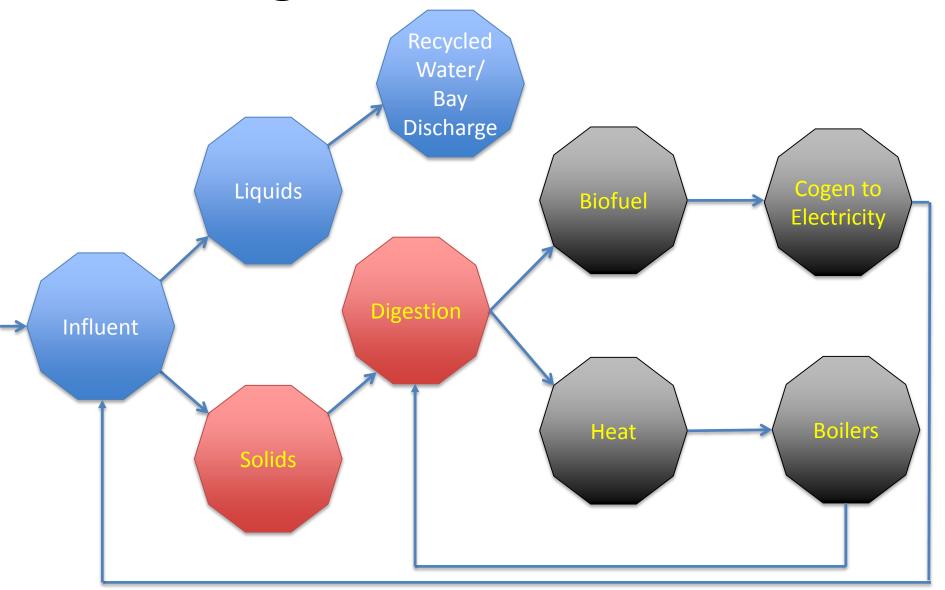


Solids Handling

Motor Control Centers



Cogeneration at SVCW



Old 350kW Cogeneration Engine



Gas Conditioning

(for Engine Protection)



New 1 MW Cogeneration System



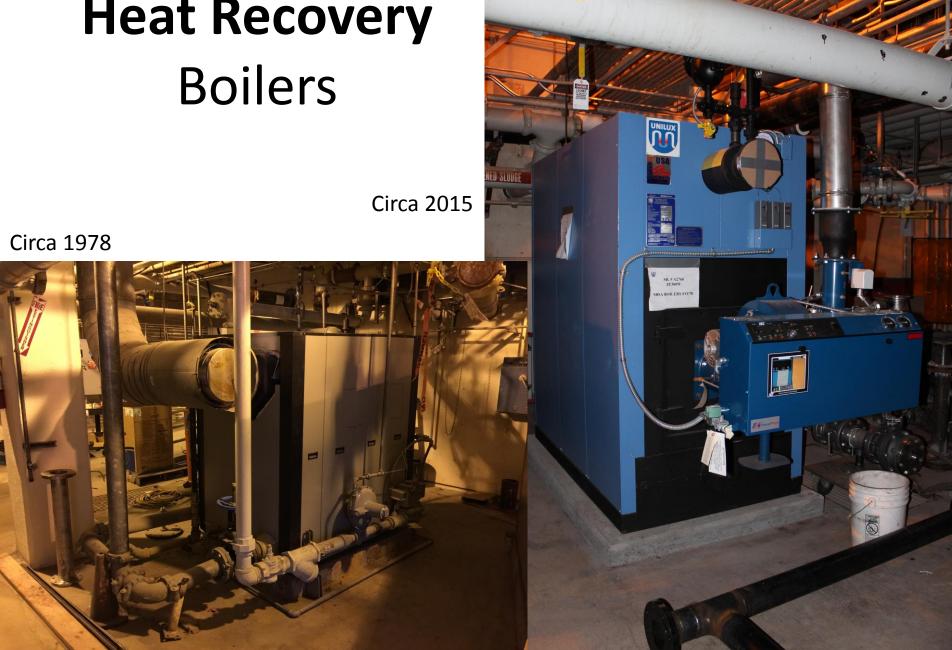


Cogeneration System

Heat Exchangers



Heat Recovery



Digestion System

Rehabilitated Digesters



Digestion System

Mix Pumps

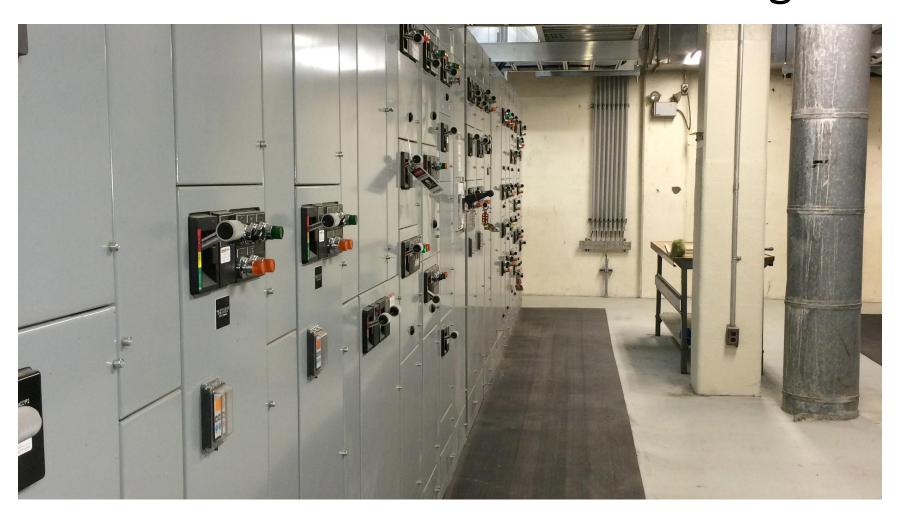


Electrical System

12kV-to-480V Transformers



Electrical System Upgrades Power Distribution Panels 1 through 4



Electrical System Upgrades Standby Generators Control Panels



Electrical System Upgrades Standby Generators



ThickeningDamaged Thickeners







Thickening Reuse of Facilities



UPCOMING PROJECTS

Screening Facility
Food Waste
Forcemain
Filtration
Reclaimed Water



Influent Screening Needs



Equipment Failures

due to Rags





Manual Cleaning





Coarse and Fine Screens





FOOD WASTE





Food Waste Project Overview







Separation Process



Waste



Organics

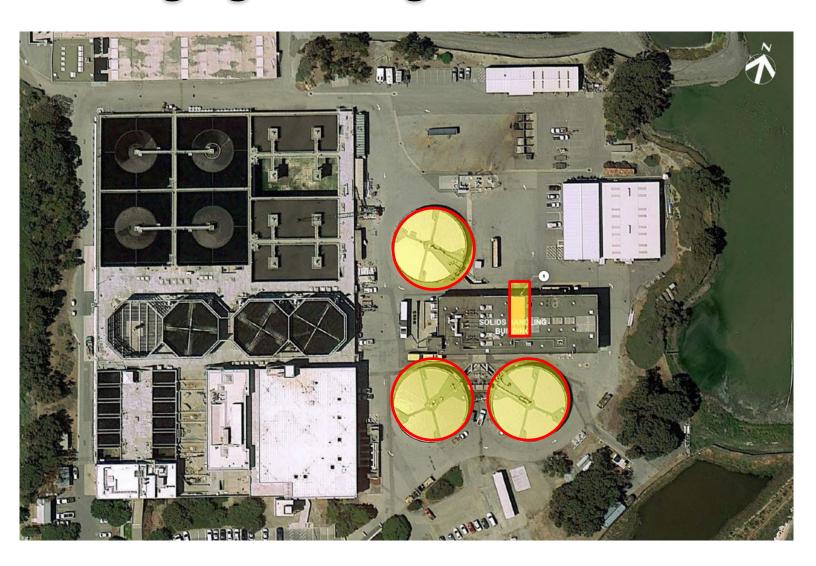
SBWMA

SVCW



Food Waste

Leveraging Existing SVCW Facilities

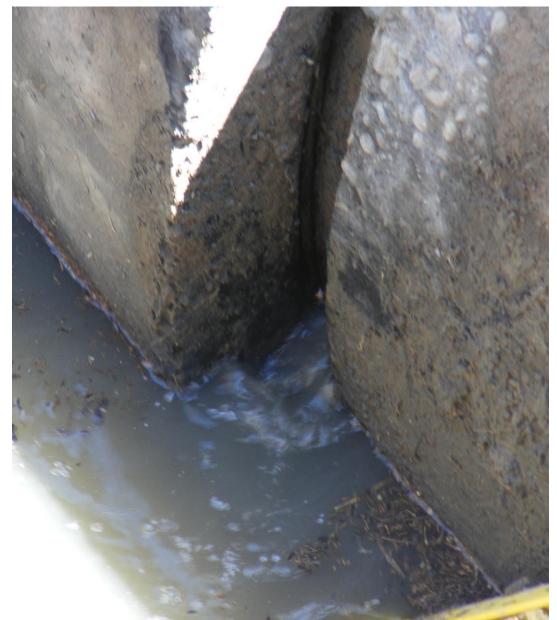


FORCEMAIN



Force Main Leaks

Typical Separation at Pipe Joints



Leak at San Carlos P.S.



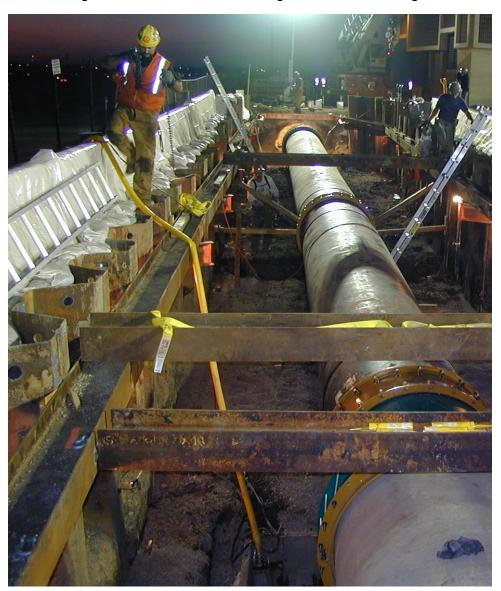
Leak at San Carlos P.S.



Break after surge due to power



Repair of Split Pipe



Leak near Governors Bay Drive



Force Main Leak Repairs



Placing Clamp

Force Main Leaks





O-Ring Pushed back into Joint

Leak near Governors Bay Dr. – Repair



Force Main Leak at WWTP



Force Main Leak at WWTP



Bypass Pipe to Repair Leak

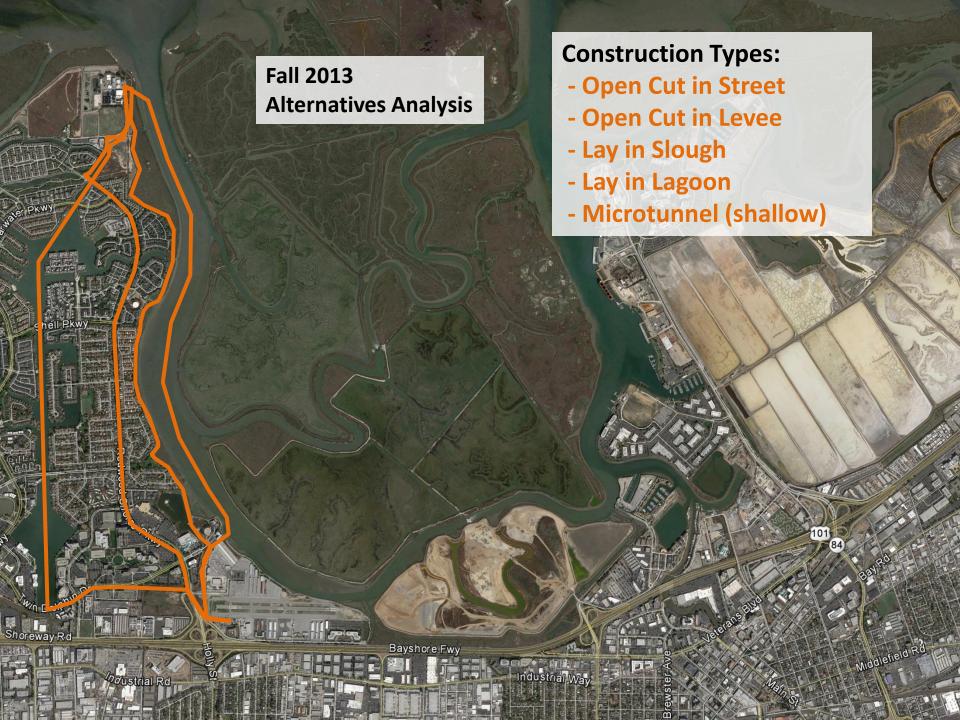


Bypass Pipe to Repair Leak

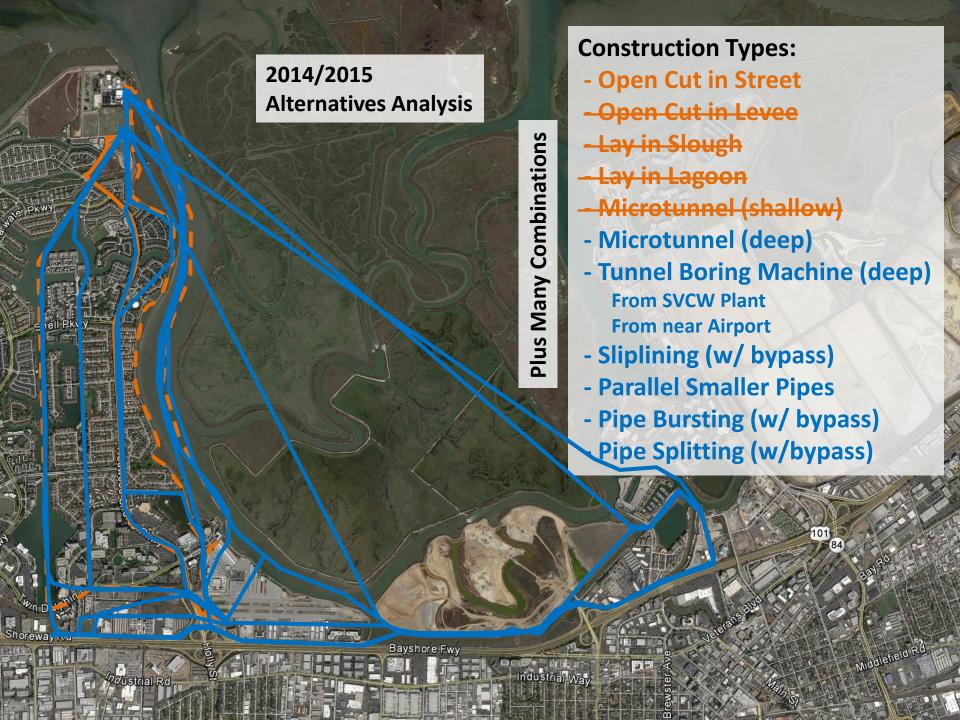


Force Main Repair at WWTP









Thank You

